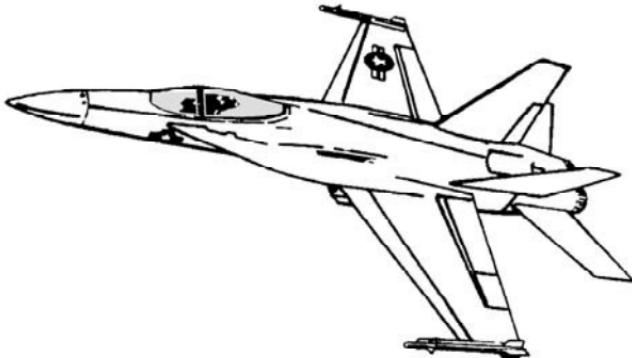

CHANGE NOTICE

A1-F18AE-LWS-730

Conventional Weapons

CHECKLIST
F/A-18
TALD/I-TALD



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INTRODUCTION

This checklist contains abbreviated procedures to load and unload the TALD/I-TALD weapons on the F/A-18 aircraft.

REQUIRED READING

Loading crewmembers may perform several steps simultaneously provided they do not invalidate or interfere with a preceding or subsequent step and safety precautions are strictly observed.

The steps within this checklist to SAFE racks means rotation of ground safety handle to LOCKED position.

REQUIRED READING (Continued)

Ensure compliance/incorporation of the following Technical Directives, as applicable:

1. None.

RESTRICTIONS:

1. None.

TEST EQUIPMENT/SPECIAL TOOLS:

1. TALD swaybrace preset gage.
2. I-TALD swaybrace preset gage.
3. (TALD) (If required) TTU-473/E Decoy Tester-Programmer. (Refer to NAVAIR 01-A/B37U-1 for instruction and use.)
4. (TALD/I-TALD) (If required) TTU-585/E Decoy Tester-Programmer. (Refer to NAVAIR 01-ADM141C-1 for instruction and use.)
5. Lug alignment plate (locally manufactured) (Refer to NAVAIR 01-ADM141C-1) (optional).

HANDLING/LOADING EQUIPMENT:

NOTE: (TALD) JACKET ADAPTER (1 PER WEAPON) OR FWD TRANSPORT ADAPTER ADU-800/E (P/N 665AS900) (2 PER WEAPON) MAY BE USED.

NOTE: (I-TALD) REQUIRES THE USE OF FWD TRANSPORT ADAPTER ADU-800/E (P/N 665AS900) AND AFT TRANSPORT ADAPTER ADU-814/E (P/N 665AS910) WITH ALL SUPPORT EQUIPMENT CONFIGURATIONS.

1. Refer to Table 5-7 in Airborne Weapon/Stores Loading Manual A1-F18AE-LWS-000.

For specific flight authorization, refer to the Tactical Manual. The procedures in this checklist have been verified for the following weapons:

TALD
I-TALD

AIRCRAFT PREPARATION/INSPECTION

1. Release and Control System Checks completed()
2. Loaded stations - SAFE()
3. Parent rack configured with BRU-42:
 - a. Cartridges removed()
 - b. Swaybraces in normal position and seated()
 - c. Adapter harness (PN 1453-AS-395) connected()
 - d. BRU-42:
 - (1) Cartridges removed()
 - (2) Suspension hooks open()

NOTE: (TALD) SHOULDER: PRESET FORWARD
INBOARD SCREW 7/16 INCH, AFT INBOARD
SCREW 9/16 INCH. JAM NUT MUST BE
POSITIONED ON UNDERSIDE OF SWAYBRACE.

NOTE: (I-TALD) SHOULDER: PRESET FORWARD
INBOARD SCREW 9/16 INCH, AFT INBOARD
SCREW 11/16 INCH. JAM NUT MUST BE
POSITIONED ON UNDERSIDE OF SWAYBRACE.

- (3) Swaybraces retracted/preset()
- (4) Ejector feet retracted()
- (5) Launch adapter installed, for each station to be
loaded()

WEAPON INSPECTION

1. TALD (Fig. 1):
 - a. Wing safing pin installed; lanyard bridle attached to safing pin()
 - b. Electrical safing pin installed()

CAUTION

ANY DAMAGE IS CAUSE FOR REJECTION.

- c. NOT damaged()
- d. Suspension lugs erect (in detents)()
- e. MER/TER POS switch set for station to be loaded (L/C/R) ..()
2. I-TALD (Fig. 2):
 - a. Wing safing pin installed; lanyard bridle attached to wing safing pin()
 - b. Engine inlet cover and safing pin installed()
 - c. Electrical safing pin installed (red stripe not visible through access)()
 - d. Separation switch pin with lanyard installed (red stripe not visible through structure)()

NOTE: FUEL LEAKAGE IS CAUSE FOR REJECTION.

- e. NOT damaged()
- f. Antenna NOT damaged()
- g. Control surface secure and aligned with fixed surfaces()
- h. Pressure ports NOT obstructed()
- i. Suspension lugs erect in detents()
- j. MER/TER POS switch set for station to be loaded (L/C/R) ..()
- k. Perform wing shear screw/deployment check:

CAUTIONSTAND CLEAR OF I-TALD WING SWEEP
AREA WHILE PERFORMING WING SHEAR
SCREW/DEPLOYMENT CHECK.

- (1) (FWD lug well) Wing shear screw screwed down()
- (2) Remove wing safety pin()

WEAPON INSPECTION (Continued)

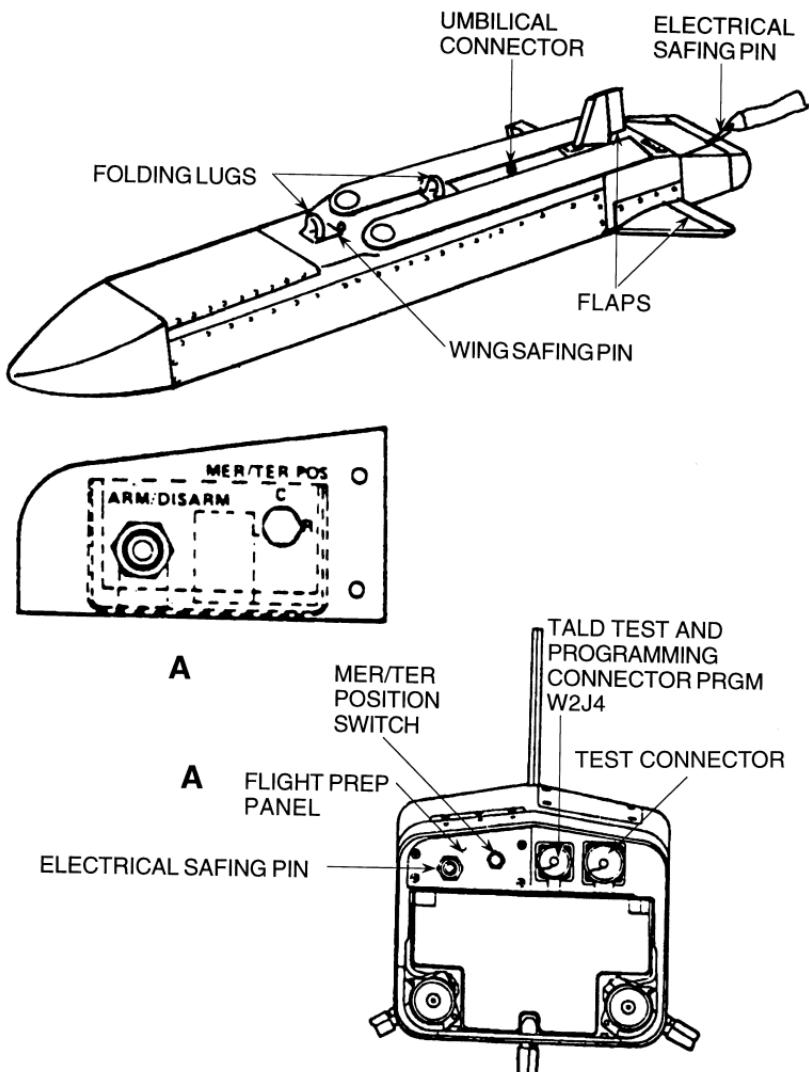


Figure 1. TALD Inspection

WEAPON INSPECTION (Continued)

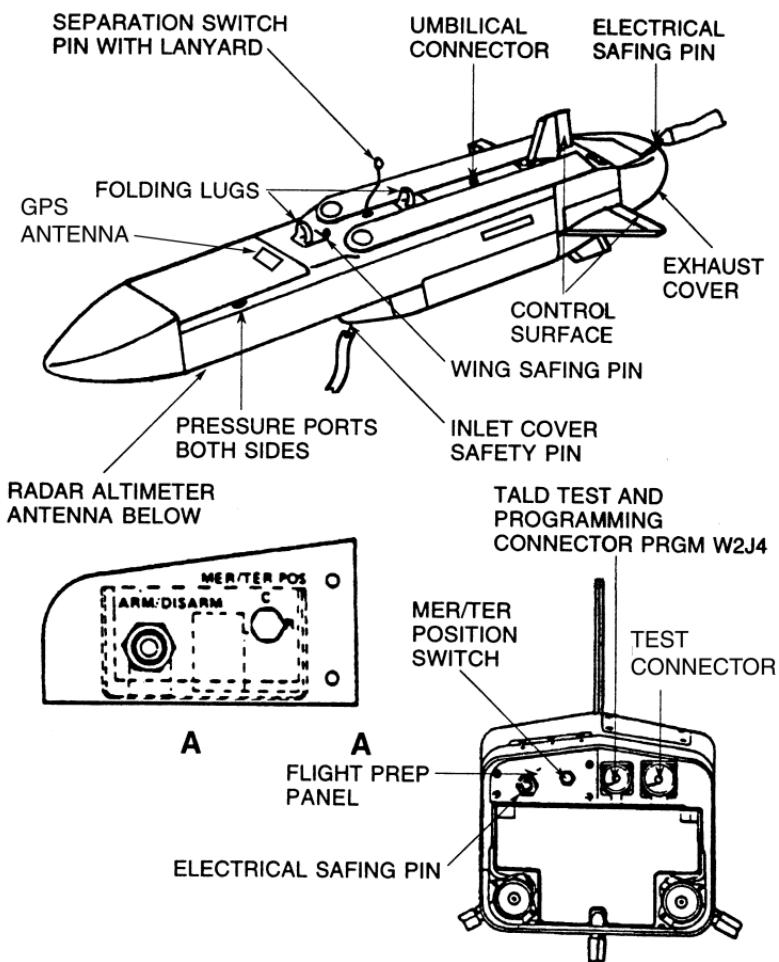


Figure 2. I-TALD Inspection

WEAPON INSPECTION (Continued)

NOTE: IF WING SWEEP EXCEEDS FIVE (5) INCHES OF FREE PLAY AT WING TIPS, AND NO RESISTANCE IS FELT (CONTACT WITH SHEAR SCREW) CLOSE WING, INSTALL WING SAFETY PIN AND NOTIFY PROPER AUTHORITY.

NOTE: REJECT WEAPON IF WING SWEEP EXCEEDS FIVE (5) INCHES AND WINGS ARE FREE TO EXPAND TO OPEN POSITION.

- (3) Slowly move wings to ensure proper movement and contact with shear screw; close wings()
- (4) Install wing safety pin()
- I. Verify testing and programming complete()

NOTE: MISSION PROFILE MAY BE VERIFIED, IF REQUIRED, BY EITHER CHECKING THE MISSION PROFILE CODE ON FLIGHT PREPARATION PANEL DOOR OR BY USING THE "VERIFY" FUNCTION ON TTU-473/E FOR TALD, OR THE TTU-585 FOR TALD OR I-TALD.

- m. Verify correct mission profile()
- n. Ensure all access panels secure()

WEAPON LOADING

A. PREPARATION

1. Aircraft Preparation/Inspection and Weapon Inspection completed()
2. (If applicable) Power removed()
3. Aircraft grounded()
4. Armament switches positioned - Table 1()
5. Place WEAPONS LOADED sign in cockpit()
6. Set proper code in weapons insertion panel (SMP)()

NOTE: (I-TALD) THE USE OF THE LUG ALIGNMENT IS NOT MANDATORY. HOWEVER, ITS USE WILL PREVENT GPS ANTENNA DAMAGE IF AFT SUSPENSION LUG FALLS FORWARD.

7. (If applicable) Install lug alignment plate()

B. LOADING

CAUTION DO NOT LIFT ON CONTROL SURFACES (FLAPS) OR ALLOW SWAYBRACE PADS TO CONTACT WINGS.

CAUTION (I-TALD) DO NOT LIFT ON OR ALLOW LOADING EQUIPMENT TO CONTACT RADOME, RADAR ALTIMETER ANTENNA, ENGINE INLET COVER, EXHAUST COVER, CONTROL SURFACES (FLAPS), OR ALLOW AFT SHOULDER STATION SWAYBRACE TO CONTACT WINGS.

CAUTION (I-TALD) MAINTAIN WEAPON PARALLEL TO SWAYBRACES TO AVOID DAMAGE TO WINGS OR FUSELAGE.

1. Raise weapon; latch suspension hooks; ensure hooks support Weapon()
2. SAFE rack()
- 2.1. (If applicable) Remove lug alignment plate()

Table 1. Aircraft Armament Switches

PANEL	SWITCH	POSITION
MC/HYD ISOL	MC	NORM
NUC WPN SWITCH	NUC WPN	DISABLE (down position)
GND POWER CONTROL	1 2 3 4 EXT PWR	AUTO AUTO AUTO AUTO OFF
LEFT VERTICAL	SELECT JETT JETT (pushbutton)	SAFE off
MASTER ARM CONTROL	MASTER EMERG JETT (pushbutton)	SAFE Yellow/brass ring not visible
ECM CONTROL (NOTE 1) ICMDS (NOTE 2)	AUX REL ECM DISPENSER MODE SEL RWR	NORM OFF OFF STBY OFF
ANTENNA SELECT CONTROL PANEL (NOTE 3 and 4)	ALE-39 RESET	OFF
EMERGENCY JETTISON	(Rear cockpit) EMERG JETT	Yellow/brass ring not visible
ITALD CONTROL (If installed)	INSTM POWER CIRCUIT BREAKER	OFF RESET
AN/ALQ-167 CONTROL (If installed)	PWR	OFF
MAP GAIN CONTROL	IR COOL	(NOTE 5)
COMMUNICATION	WPN VOL control	LOW
FWD/REAR COCKPIT	All other switches	OFF, SAFE, or NORMAL
NOTE		
<ol style="list-style-type: none"> 1. 161353 thru 164980 2. 165171 and UP 3. 161353 thru 163175 4. 163427 thru 164980 5. Without AIM-9L/M or with AIM-9X -OFF position, and NORM position with AIM-9L/M 		

WEAPON LOADING (Continued)

CAUTION

FREE LATERAL MOVEMENT IN WING
MECHANISM MUST BE REMOVED BY
SPREADING WINGS FOR PROPER
SWAYBRACE ADJUSTMENT. DO NOT
ATTEMPT TO SPREAD WINGS FURTHER
AFTER FREE MOVEMENT HAS STOPPED.
OVER-TIGHTENING OF REAR SWAYBRACES
CAN DAMAGE WINGS.

3. Adjust swaybraces:
 - a. Centerline station:
 - (1) Spread wings()
 - (2) Adjust forward and aft swaybraces until pads contact weapon/wing()
 - (3) Ensure wings contact pads on weapon()
 - (4) Tighten forward and aft swaybraces $\frac{1}{2}$ turn()
 - b. Shoulder station:
 - (1) Ensure weapon is resting against both forward and aft inboard swaybraces()
 - (2) Spread wings()
 - (3) Adjust outboard swaybrace until pads contact weapon/wings()
 - (4) Tighten forward and aft outboard swaybraces one full turn ensuring wings contact pads on weapon body()
 4. Position ejector foot()
 5. Connect wing safing pin lanyard bridle to rack (Fig. 3)()
 6. (I-TALD) Connect separation switch lanyard to tail arming unit()

WEAPON LOADING (Continued)

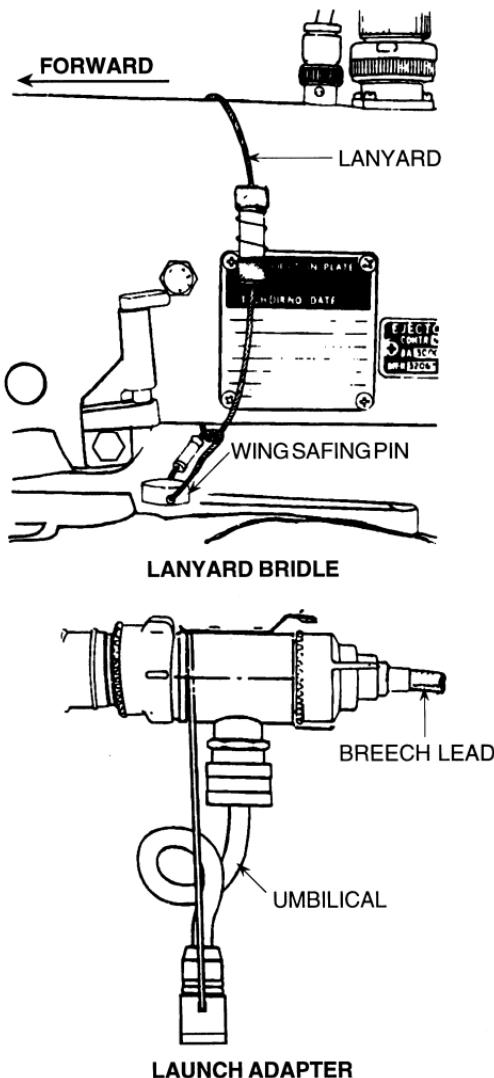


Figure 3. Lanyard Bridle and Launch Adapter Installation

WEAPON LOADING (Continued)

7. (Asymmetric Loads) Final BRU-32 swaybrace procedures:
 - a. Push BRU-42 outboard until BRU-32 outboard swaybraces are seated on BRU-42()

NOTE: IF DRAG IS NOT PRESENT ON BOLT DURING SWAYBRACE ADJUSTMENT, TIGHTEN SETSCREW WITH 3/32 HEX ALLEN WRENCH UNTIL DRAG IS PRESENT. DO NOT OVERTIGHTEN SETSCREW.

- b. Using screwdriver, tighten inboard swaybraces until all four swaybraces are seated on BRU-42()

WARNING

HERO MUST BE SET IF LAUNCH ADAPTER CABLE WITH PART NUMBER 43-24000-102/103/104 IS USED WITH TALD OR PART NUMBER 43-20902-103/104 WITH I-TALD.

NOTE: VERIFY PART NUMBER OF LAUNCH ADAPTER.

8. BRU-42:
 - a. Install cartridges()
 - b. Connect launch adapter to breech()

NOTE: LAUNCH ADAPTER CONNECTOR WILL LOCK IN PLACE WHEN FULLY SEATED.

- c. Connect launch adapter to TALD/I-TALD()
9. (BRU-32) Install cartridge retainers and auxiliary cap()

POSTLOADING INSPECTION

1. Armament switches positioned - Table 1()
2. WEAPONS LOADED sign in cockpit()
3. Racks SAFE()
4. Parent rack:
 - a. Swaybraces seated()
 - b. (BRU-32) Cartridge retainers and auxiliary cap installed()
5. BRU-42:
 - a. Adapter harness connected()
 - a.1. Swaybraces properly adjusted()
 - b. Unloaded station(s) suspension hooks open()
 - c. Cartridges installed()
 - d. Launch adapter tight on breech; breech cap tight on launch adapter()
6. TALD:
 - a. Launch adapter connected (locked in place) to weapon()
 - b. Wing safing pin lanyard bridle attached to rack and through loop on pin()
 - c. MER/TER POS switch set for station loaded()
 - d. Electrical safing pin installed and locked()
7. I-TALD:
 - a. Launch adapter connected (locked in place) to weapon()
 - b. Wing safing pin installed; lanyard bridle attached to rack and through loop on pin()
 - c. Separation switch pin installed (no red showing); lanyard installed in tail arming unit()
 - d. Electrical safety pin installed (no red showing)()
 - e. MER/TER POS switch set for station loaded()
 - f. Control surfaces aligned()
 - g. Engine exhaust cover installed()
 - h. Engine inlet cover safety pin installed()

WARNING CARTRIDGES NOT INSTALLED.

POSTLOADING INSPECTION (Continued)

NOTE: MISSION PROFILE MAY BE VERIFIED, IF REQUIRED, BY EITHER CHECKING THE MISSION PROFILE CODE ON FLIGHT PREPARATION PANEL DOOR OR BY USING THE TTU-473/E DECOY TESTER-PROGRAMMER "VERIFY" FUNCTION.

- i. Verify mission profile()
- j. Flight preparation panel door secure()
- 8. Proper code set in weapons insertion panel (SMP)()

WEAPON UNLOADING

A. PREPARATION

1. (If applicable) Power removed()
2. Aircraft grounded()
3. Loaded stations - SAFE()
4. Armament switches positioned - Table 1()
5. WEAPON LOADED sign in cockpit()
6. BRU-42:

WARNING

DO NOT REMOVE LAUNCH ADAPTER
UMBILICAL CONNECTOR FROM WEAPON.

WARNING

TO PREVENT INADVERTENT CAD FIRING, DO
NOT DISCONNECT TALD/I-TALD LAUNCH
ADAPTER CABLE WITH PART NUMBERS 43-
24000-102/103/104 OR I-TALD LAUNCH
ADAPTER CABLE WITH PART NUMBER 43-
20902-103/104 UNTIL HERO IS SET.

- a. Remove breech cap from launch adapter()
- b. Remove launch adapter from breech; tape launch
adapter to weapon()
- c. Remove cartridge()
- d. Disconnect wing safing pin lanyard bridle from rack()
- e. (If applicable) Disconnect separation switch pin lanyard()
- f. Retract swaybraces/ejector foot()

B. UNLOADING

WARNING

DO NOT LIFT ON CONTROL SURFACES
(FLAPS) OR ALLOW SWAYBRACE PAD TO
CONTACT WING.

WARNING

(I-TALD) DO NOT LIFT ON, OR ALLOW LOADING
EQUIPMENT TO CONTACT, RADAR ALTIMETER
ANTENNA, ENGINE INLET COVER OR CONTROL
SURFACES (FLAPS), OR ALLOW AFT LUG
SHOULDER TO CONTACT WING.

WEAPON UNLOADING (Continued)

CAUTION

(I-TALD) MAINTAIN WEAPON PARALLEL TO
SWAYBRACES TO AVOID DAMAGE TO WINGS
OR FUSELAGE.

1. Raise weapon()
2. Unlock safety stop lever()
3. Release rack; lower weapon()